April 26, 1932. J. C. RINKER 1,855,870

FILING DEVICE

Filed Sept. 16, 1927

Fig. 1.

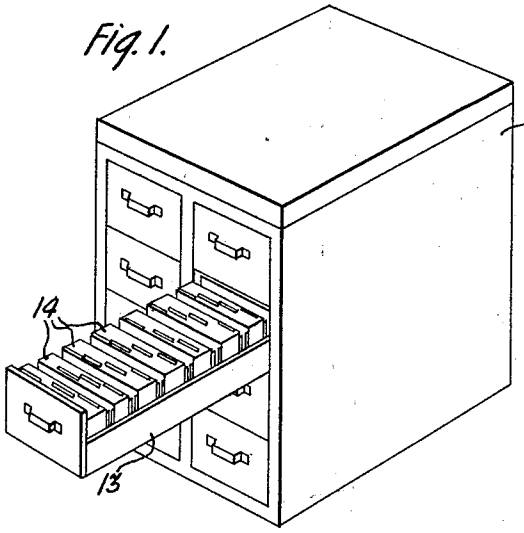


Fig. 2.

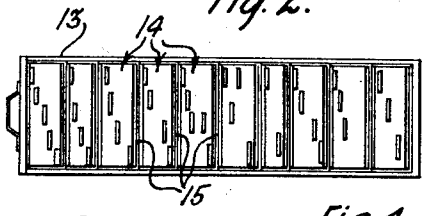


Fig. 3.

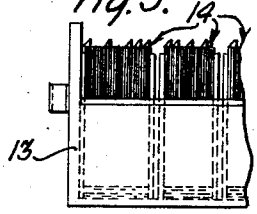


Fig. 4.

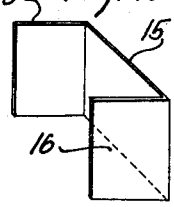


Fig. 7.

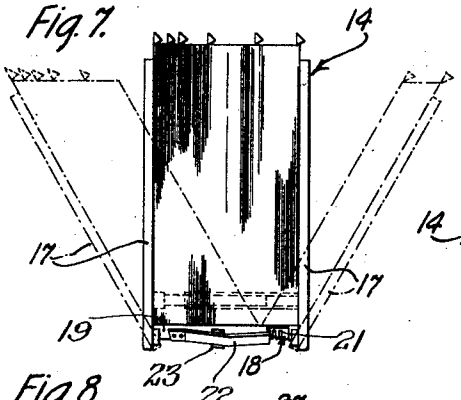


Fig. 5.

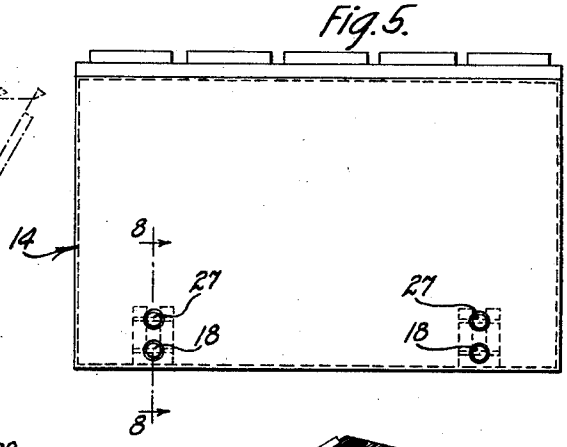


Fig. 8.

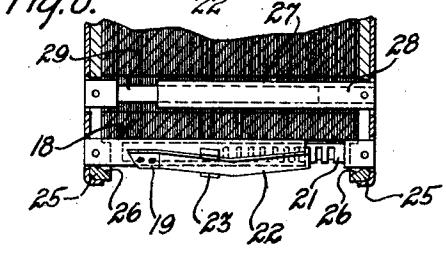


Fig. 6.

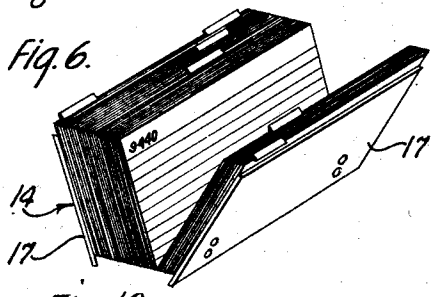


Fig. 9.

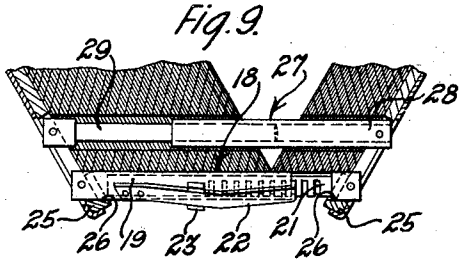
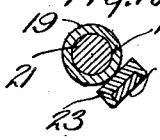


Fig. 10.



Inventor
Jacob C. Rinker
by H. A. Patterson Atty.

Patented Apr. 26, 1932 1,855,870

UNITED STATES PATENT OFFICE

JACOB CHRISTOPHER RINKER, OF OAK PARK, ILLINOIS, ASSIGNOR TO WESTERN ELECTRIC COMPANY, INCORPORATED, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK

FILING DEVICE

Application filed September 16, 1927. Serial No. 219,880.

This invention relates to a filing device, and more particularly to a device for filing cards in convenient units comprising a group of cards in each unit.

In filing cards individually in a drawer it sometimes happens that the cards are not returned to their proper places or in their proper order after being referred to, with the result that it is difficult to locate the misplaced cards on the next occasion to refer to them.

It is an object of the present invention to provide a card or sheet filing device in which the possibility of misplacing cards or sheets in the file is eliminated, without sacrificing accessibility to the cards or sheets.

In accordance with the general features of the invention the cards to be filed are arranged in a systematic order and placed in holders in which they are positively retained and each holder is so constructed that when it is opened at a particular place the card at that place is fully and directly visible. A number of holders may be placed in a drawer provided with a plurality of U-shaped spacing members which keep the space allotted to a holder open thus permitting the holder to be readily returned to its proper place.

It is believed that a complete understanding of the invention may be had by reference to the following description taken in conjunction with the accompanying drawings, in which

Fig. 1 is a perspective view of a filing cabinet with a drawer extended to show the card holders in their filed position;

Fig. 2 is a plan view of a drawer showing the card holders in place;

Fig. 3 is a fragmentary side view of a drawer;

Fig. 4 is a perspective view of a flexible U-shaped spacer;

Fig. 5 is a side elevation of a holder;

Fig. 6 is a perspective view of the holder showing the visibility of a card when the holder is opened;

Fig. 7 is an end view of a card holder showing the holder open in the dotted-line position;

Fig. 8 is a fragmentary and sectional detail view taken on line 8—8 of Fig. 5;

Fig. 9 is a view similar to Fig. 8 showing the holder in the open position, and

Fig. 10 is an enlarged cross-sectional view of one of the connecting links.

Referring to the drawings in which the same reference characters designate similar parts in the several views, a filing cabinet 12 with a drawer 13 extended is shown containing a plurality of card holders 14. Between each pair of card holders a U-shaped spacing member 15 is provided including a pair of parallel resilient side members 16—16 which extend outside of the ends of a card-holder and yieldably engage the sides of the drawer to adjustably hold the spacer in place. When a holder 14 is removed from a drawer the spacing member maintains the place therefor open so that upon the refiling of the cards contained in the holder the card holder may readily be replaced in the drawer and the possibility of misplacing the holder is eliminated.

Each card holder comprises a pair of rigid cover members 17—17 pivotally attached to a pair of connecting links 18—18, each of which consists of a tubular member 19 and a notched pin 21 which is adapted to slidably fit into the tubular member 19. The tubular member 19 is equipped with a spring 22 which extends over the end of the tube and engages one of the notches in the pin 21. A slidable U-shaped member 23 is associated with the spring 22 and is of such a thickness that when it is moved to the free end of the spring the end of the spring will be withdrawn from the notch in the pin 21 thus permitting the free adjustment of the length of the connecting link 18 to adjust the spacing between the cover members for holding various numbers of cards. An abutment mem-

ber 25 having a sloping surface 26 is provided on each of the cover members 17 at the pivotal connections between the connecting links 18 and the cover members which limits the pivotal movement of the cover members allowing each cover member to open through a distance of 30°, as shown in Figs. 6 and 7, which is sufficient to permit a direct view of any written matter contained on the cards filed in the holder. A second pair of connecting members 27—27 is provided, each of which comprises a tubular member 28 pivotally attached to one of the cover members, and a pin member 29 pivotally attached to the other of the cover members. The pin member 29 is adapted to slidably fit in the tubular member 28 forming an extensible connection between the cover members. The links 27 are adapted to be inserted in perforations of the cards to be filed in the holder and serve to retain the cards in the holder. A card holder of this type may be placed upon a desk or a table in the position shown in Fig. 6 and any of the cards may be turned into the visible position without manipulating the holder, and after reference to the cards the holder may be readily replaced in the drawer in the space maintained by the spacer which assures that the cards will be refiled in the proper systematic order.

It will be understood that the embodiment of the invention herein described and illustrated is merely a convenient and useful form of the invention which is capable of many other modifications without departing from the spirit and scope of the invention.

What is claimed is:

1. In a card filing device, a holder for a group of cards, a container for the holder, and a U-shaped spacer having sides embracing the holder, and resiliently engaging the container to permit adjustment of the spacer within the container for allotting the holder a space in the container according to the thickness of the holder.

2. In a card filing device, a card holder comprising a pair of rigid cover members, a connecting link for spacing the cover members, and an extensible link pivotally mounted in the cover members for retaining the cards in the holder.

3. In a card filing device, a card holder comprising a pair of rigid cover members, a connecting link pivotally mounted in the cover members, and means for limiting the opening of the cover members.

4. In a card filing device, a card holder comprising a pair of rigid cover members, a connecting link pivotally mounted in the cover members, means for preventing the opening of the cover members beyond a predetermined distance, and an extensible link pivotally mounted in the cover members to retain the cards in the holder.

5. In a card filing device, a card holder comprising a pair of cover members, a pin having a plurality of notches pivotally attached to one of the cover members, a tubular member for receiving the pin provided with a spring for engaging a notch in the pin pivotally attached to the other cover member, means for limiting the pivotal movement of the pin and the tubular member with respect to the cover members, and an extensible member attached to the cover members for retaining the cards in the holder.

6. In a card filing device, a card holder comprising a pair of rigid cover members, an adjustable connecting link for spacing the cover members, and means on the respective cover members engageable with said link for preventing the opening of the cover members beyond a predetermined distance.

7. In a card filing device, a card holder comprising a pair of cover member, a connecting link for spacing the cover members, means for providing a predetermined amount of rotation of the cover members upon the connecting link, a tubular member pivotally attached to one of the cover members, a pin pivotally attached to the other cover member to slidably fit into the tubular member, said tubular member and pin forming a means for retaining the cards in the holder irrespective of the amount of rotation of the cover members upon the connecting link.

8. In a card filing device, a card holder comprising a pair of rigid cover members, a pin having a plurality of notches pivotally mounted in one of the cover members, a tubular member pivotally mounted in the other cover member for receiving the pin and provided with a spring for engaging a notch in the pin, and a member slidable on the spring and adapted to engage the tubular member for moving the spring out of engagement with the notch.

9. In a card filing device, a card holder comprising a plurality of rigid cover members, adjustable rigid spacing members attached adjacent the rearward edges of the cover members to accommodate the number of cards received, and means associated with the rigid spacing members for allowing the cover members to swing open only a predetermined distance.

10. In a card filing device, a container, an adjustable card holder adapted to swing open a predetermined amount and removable from the container, and a spacer disposed in the container for preserving a space therein for the card holder while the card holder is removed.

11. In a card filing device, a container, a plurality of adjustable card holders each adapted to swing open a predetermined amount and removable from the container, and a plurality of movable spacers disposed in the container for maintaining the spacing

of the card holders when a card holder has been removed.

12. In a card filing device, a holder of variable thickness for a group of cards adapted to swing open a predetermined amount for making the cards visible, a container for the holder, and a spacer having end flaps which resiliently engage the sides of the container maintaining for the holder a space in the container according to the greatest thickness of the holder when the holder is removed from the container.

In witness whereof, I hereunto subscribe my name this 31 day of August, A. D. 1927.

JACOB CHRISTOPHER RINKER.